

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

Date/Time: July 1, 2003/ 11:30 AM
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Agency: CDPHE

Purpose of Contact: Evaluation of the IHSS Group 800-2 Barium Hot Spot and combination of IHSS Groups 300-3 and 300-4 Data Summary Report.

Discussion

A meeting was held to discuss the hot spot evaluation methodology that was used in the Data Summary Report for IHSS Group 800-2. The methodology was used to evaluate the one barium concentration that exceeded the Wildlife Refuge Worker Action Level. The methodology involved three components:

- Dividing the 95% upper confidence limit (UCL) of the mean across the area of concern (AOC) by the action level (AL);
- Using the hot spot equation presented in the Industrial Area Sampling and Analysis Plan (IASAP); and
- Determining if the concentration was greater than three times the AL.

Based on the discussion, the following decisions were made regarding the Data Summary Report:

- Remove the IASAP hot spot equations (Equations 2 and 3) from the Report and associated text;
- Explain in the text how dividing the 95% UCL of the mean across the AOC by the AL (Equation 1) is used to determine if unacceptable risk exists;
- Define the AOC and explain how the 95% UCL (2,841 mg/kg) was derived; and
- Leave in the discussion on how the barium concentration was less than three times the AL.

In addition, the hot spot methodology discussion in the IASAP will be changed as part of the current revision. The revision will state that dividing the 95% UCL of the mean across the AOC by the AL will be used as the first step. If the result is less than 1, no further analysis is required. This method is more conservative than using the IASAP equation (i.e., results will always be greater than results using the IASAP equation). If the result is greater than 1, the IASAP equation will be used. The "three times the AL" criterion will continue to be a limiting factor.

It was also agreed that IHSS Groups 300-3 and 300-4 can be combined and evaluated together in a Data Summary Report. An explanation will be included in the text explaining why they have been evaluated together.

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Required Distribution:

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